No.

200500152

# THE TONIKED STRAITES OF AMERICA

TO ALL TO WHOM THESE: PRESENTS SHALL COME;

Hioneer Hi-Bred International, Inc.

MACCELS, THERE HAS BEEN PRESENTED TO THE

# Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY TEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE GHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'25R51'

In Testimony Thereof, I have hereunto set my hand and caused the seal of the Flant Inviety Frotection Office to be affixed at the City of Washington, D.C. this sixth day of March, in the year two thousand and six.

Attast:

Q2mZm

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretar

#### INSTRUCTIONS

200500152

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initiated and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 http://www.ams.usda.gov/lsg/seed.htm.

#### ITEM

- 19a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all propisans). Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

## 19A. Exhibit A. Origin and Breeding History of Pioneer Wheat Cultivar XW03U.

'Z5R51

1/28/06 1/28/06

Pioneer® experimental cultivar XW03U is a soft red winter wheat (*Triticum aestivum* L.) developed by Pioneer Hi-Bred International, Inc.. Using a modified pedigree selection breeding method, XW03U was derived from the three-parent cross:

#### WBI1097S1/25R18 sib.//2571

WBI1097S1 was an experimental line derived from the cross: WBZ053G//2555 sib./2548. WBZ053G was an experimental line derived from the cross: Kavkaz /Hart//2550. The detailed parentage of XW03U is:

#### Kavkaz/Hart//2550/3/2555 sib./2548/4/25R18 sib/5/2571

The single cross WBI1097S1/25R18 sib. was made in the 1995 spring greenhouse cycle and was designated W952255. During the 1995 fall greenhouse cycle the  $F_1$ , W952255, was crossed with 2571 and the final cross was designated W960355. The subsequent breeding history of XW03U is described below.

<u>Year</u>	<u>Generation</u>	
1995 I	Final cross	
1996	F <sub>1</sub>	F <sub>1</sub> grown in transplant nursery at Windfall IN.
1996-97	F <sub>2</sub>	Bulk populations grown at Windfall and Ft. Branch, IN. Individual spike selections made at both locations.
1997-98	F <sub>3</sub>	Headrows from $F_2$ selections grown at Windfall and Ft. Branch, IN. Selected rows cut and threshed individually. This selection was made at Windfall, IN.
1998	F <sub>4</sub>	Plants from the selected row were evaluated in the fall greenhouse cycle for reaction to Fusarium head blight. Six resistant plants were selected, harvested and threshed individually.
1999	F <sub>5</sub>	From each resistant plant, four F₅ hill plots were grown in the spring transplant nursery at Windfall, IN. Hill plots from a resistant plant were harvested in bulk.
1999-2000	) F <sub>6</sub>	Preliminary yield testing of an $F_4$ selection from an $F_5$ hill plot. This selection designated W960355A1.
2000-01	F <sub>7</sub>	Advanced yield testing of W960355A1. 200 individual spikes were harvested from a small bulk increase.
2001-02	F <sub>8</sub>	Elite yield testing of W960355A1. 200 purification headrows planted, off-type rows destroyed prior to maturity. Approximately 100 of the remaining, inside rows

were individually cut and threshed. Two spikes were taken from each harvested row.

2002-03 F<sub>9</sub>

Elite yield testing continued of W960355A1. Seed from purification headrows planted in individual progeny plots which surrounded 200 headrows. Off-type plots and headrows were destroyed prior to harvest. Equal numbers of spikes were harvested from the remaining progeny plots for a total of 1000 individual spikes. 110 headrows were harvested. The progeny plots were harvested in bulk, which constitutes Breeder Seed. Bulk seed, headrow bulks, and individual spikes were turned over to Pioneer's Supply Management, Parent Wheat Seed group.

2003-04 F<sub>10</sub>

Elite yield testing continued, line designated YW03U. Seed increase continued by Pioneer Parent Wheat Seed

Group.

2004-05 F<sub>11</sub>

Elite yield testing continues, line designated XW03U. Seed increase continues by Pioneer Parent Wheat Seed Group.

Decision to release XW03U will be made in August 2005, at which time a commercial code will be assigned.

'z5R51

May 2/28/06

The cultivar XW03tJ was bred and selected for any and all of the following characteristics in the field environment: disease resistance, plant type, plant height, head type, straw strength, maturity, grain yield, test weight, and milling and baking characteristics.

XW03U has been shown to be uniform and stable since the 6<sup>th</sup> generation, or for the last 5 generations. XW03U has shown no variants other than what would normally be expected due to environment.

## 19B. Exhibit B. Statement of Distinctness

2/28/06

'25/251'

XW03U-is most similar to Pioneer variety 25R35 but with the following distinguishing characteristics:

- 1. The flag leaf at boot stage of XW03U is erect, while that of 25R35 is recurved.
- 2. The head shape of XW03U is strap, while that of 25R35 is tapering.
- 3. The head curvature of XW03U is recurved, while that of 25R35 is inclined.
- 4. The glumes shoulder shape of XW03U is <u>oblique</u>, while that of 25R35 is <u>wanting</u>.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 2.5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (Wheat)

#### **OBJECTIVE DESCRIPTION OF VARIETY** WHEAT (Triticum spp.)

····			•		
NAME OF APPLICANT(S)	2 11			FOR OFFICIAL USE ONLY	
Pioneer Hi-Bred Inter	national, Inc.			PVPO NUMBER	
ADDRESS (Street and No. or RD No.,	City, State, and Zip Code)			2005	00152
Crop Genetics Resea Wheat Research 3850 N. 100 E.	rch & Development			VARIETY NAME	251' 2/28/e
Windfall, IN 46076-93	389			TEMPORARY OR EXPERIMENTA XW	AL DESIGNATION 03U
Place a zero in the first box (e.g. minimum of 100 plants. Com	RUCTIONS CAREFULLY: PI g. 0 9 9 or 0 9 ) when parative data should be determing mate system used: Munsell C	number is either 99 or less or 9 led from varieties entered in the color Charts for Plant T	or less respectively. Data same trial, Royal Hortica ISSUES	a for quantitative plant characte	ers should be based on a ced color standard may be us
1. KIND:					
1	1=Common	2=Durum	3=Club	4=Other (	SPECIFY):
2. VERNALIZATION	₹:				
2	1=Spring	2=Winter	3=Other (SP	ECIFY) :	
3. COLEOPTILE AN	THOCYANIN:				
1	1=Absent	2=Present			
4. JUVENILE PLANT	Γ GROWTH:				
2	1=Prostrate	2=Semi-erect	3=Erect		
5. PLANT COLOR (I	ooot stage):				
2	1 = Yellow-Green	2 = Green	3 = Blue-Gree	en	
6. FLAG LEAF (boot	stage):				
1	1 = Erect	2 = Recurved	2	1 = Not Twisted	2 = Twisted
7. EAR EMERGENC	E:				
* 3	Number of Days Earl	ier Than25R3	35		
*	Number of Days Late	r Than			

8. ANTHER COLOR:	
1 = Yellow 2 = Pu	rple
9. PLANT HEIGHT (from soil to top of head, excluding awns):	
cm Taller Than	*
25R35 cm Shorter Than	*
	* Relative to a PVPO-Approved Commercial Variety Grown in the Same Trial
10. STEM:	
A. ANTHOCYANIN	D. INTERNODE (SPECIFY NUMBER) 6
1 1= Absent 2=Present	1 1= Hollow 2=Semi-solid 3=Solid
B. WAXY BLOOM	E. PEDUNCLE
2 1=Absent 2=Present	2 1=Absent 2=Present
C. HAIRINESS (last internode of rachis)	cm Length
2 1=Absent 2=Present	
11. HEAD (at Maturity):	
A. DENSITY	C. CURVATURE
2 1=Lax 2=Middense 3= Dense	3 1 = Erect 2 = Inclined 3 = Recurved
B. SHAPE	D. AWNEDNESS
2 1 = Tapering 2= Strap 3 = Clavate 4 = Other (SPECIFY):	1 = Awnless 2 = Apically Awnletted 3 = Awnletted 4 = Awned
12. GLUMES (at Maturity):	
A. COLOR	C. BEAK
2 = Tan	1 = Obtuse 2 = Acute
2   1 = white	3 = Acuminate
3 - Other (St ECIFT).	
B. SHOULDER	D. LENGTH
2 1 = Wanting 2 = Oblique 3 = Rounded 4 = Square 5 = Elevated 6 = Apiculate	3 1 = Short 2 = Medium (ca. 7mm) (ca. 8mm) 3 = Long (ca. 9mm)

12.	GLUMES	S (at Maturity) Continued:		
	E. W	<b>IDTH</b>		
	3	1 = Narrow (ca. 3mm) 2 = Medium (ca. 3.5mm) 3 = Wide (ca. 4mm)	m)	
13.	SEED:			-
	A. SI	НАРЕ	C. BF	RUSH
	1	1 = Ovate 2 = Oval 3 = Elliptical	2	1=Short 2=Medium 3=Long
			1	1 = Not Collared 2 = Collared
	B. CI	неек	D. CF	REASE
	1	1=Rounded 2=Angular	1	<ul> <li>1 = Width 60% or less of Kernel</li> <li>2 = Width 80% or less of Kernel</li> <li>3 = Width Nearly as Wide as Kernel</li> </ul>
			1	1 = Depth 20% or less of Kernel 2 = Depth 35% or less of Kernel 3 = Depth 50% or less of Kernel
	E. Col	lor	G. PH	IENOL REACTION (see instructions):
	3	1=White 2= Amber 3= Red 4= OTHER (Specify)	4	1 = Ivory 2 = Fawn 3 = Light Brown 4 = Dark Brown 5 = Black
	F. TE	XTURE		
	2	1=Hard 2=Soft		
14.	DISEASE:	: (0=Not Tested; 1=Susceptible; 2=Resis	stant;	3=Intermediate; 4=Tolerant)
		PLEASE INDICATE THE SPECI	FIC RA	CE OR STRAIN TESTED
	0	Stem Rust (Puccinia graminis f. sp. tritici)	2	Leaf Rust (Puccinia recondita f. sp. tritici) Field races
	3	Stripe Rust (Puccinia striiformis) Field races	0	Loose Smut (Ustilago tritici)
	3	Tan Spot (Pyrenophora tritici-repentis) Field races	0	Flag Smut (Urocystis agropyri)
	0	Halo Spot (Selenophoma donacis)	0	Common Bunt (Tilletia tritici or T. laevis)
	3	Septoria nodorum (Glume Blotch) Field races	0	Dwarf Bunt (Tilletia controversa)
	0	Septoria avenae (Speckled Leaf Disease)	0	Karnal Bunt (Tilletia indica)
	3	Septoria tritici (Speckled Leaf Blotch)	3	Powdery Mildew (Erysiphe graminis f. sp. tritici) Field races
	2	Scab (Fusarium spp.)	0	"Snow Molds"
		FIGIR FORCE		

200500152

14.	Disease	e (Continued) (0	)=Not Tested;	1=Susceptible	; 2=	Resistant;	3=Intermediate;	4=Tolerant)
			PLEASE IN	DICATE THE S	SPECI	FIC RACE	OR STRAIN TESTI	ED
	0	"Black Point" (Ker	nel Smudge)		0	Common Bipolaris	Root Rot (Fusarium spp.)	a, Cochliobolus and
	0	Barley Yellow Dwa	rf Virus (BYD	V) [	0	Rhizocto	nia Root Rot <i>(Rhizod</i>	etonia solani)
	3	Soilborne Mosaic V Field races	'irus (SBMV)		0	Black Ch	aff (Xanthomonas ca	umpestris pv. translucens)
	3	Wheat Yellow (Spir Field races	ndle Streak) Mo	osaic Virus	0	Bacterial syringae)	Leaf Blight (Pseudo	monas syringae pv.
	0	Wheat Streak Mosa	aic Virus (WSN	IV)		Other (S	PECIFY)	
		Other (SPECIFY)				Other (S	PECIFY)	
		Other (SPECIFY)		[		Other (S	PECIFY)	
		Other (SPECIFY)		[		Other (S	PECIFY)	•
15.	INSECT:	(0=Not Tested;	1=Susceptib	le; 2=Resistar	nt; 3	3=Intermed	liate; 4=Tolerant)	
			PLEASE	SPECIFY BIO	TYPE (	(where nee	ded)	
	1	Hessian Fly (Mayet Biotype E	iola destructor)			Other (S	PECIFY)	
	0	Stem Sawfly (Ceph.	us spp.)	[		Other (S	PECIFY)	
	0	Cereal Leaf Beetle	(Oulema melan	opa)		Other (S	PECIFY)	
	0	Russian Aphid (Di	uraphis noxia			Other (S	PECIFY)	
	0	Greenbug (Schizapi	his graminum)	[		Other (S	PECIFY)	
	0	Aphids		[		Other (S	PECIFY)	

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS

## 19D. Exhibit D. Additional Description of the Variety

1. Yield and Agronomic information.

MAY 128/06

'25/251'
Preliminary yield testing of XW03U began in the 1999-2000 growing season and wide scale testing has been conducted from the 2000-01 growing season to the present. It has shown adaptation to the northern soft wheat regions based on

tests conducted in Arkansas, Kentucky, Missouri, Illinois, Indiana, Ohio, Michigan, Maryland and Ontario, Canada (Table 1).

2. Information on Milling and Baking Qualities.

XW03U has demonstrated acceptable soft winter wheat milling and baking qualities (Table 2).

Table 1. Paired comparisons of XW03U during the period 2002-2004.

/ariety	Grain	Test	Plant	Heading	Straw	Leaf	Leaf	Powdery	Scab	Stripe	CCMV	SPMV
•	Yield	Weight	Height	Date	Lodging	Rust	Blight	Mildew	Scan	Rust	DOINT A	SHIME
•	)e/114	14/411	2	After	000	00	001	00	-			
1252 GT	Out/ac	10/ DU	CIII	Jan 1	1-7(6)	1-9(@	1-y(Ø	1-9(@	1-y@	1-9@	1-9@	1-9 <i>(a)</i>
XW03U-	88.0	56.3	91.4	124.8	6.7	7.2	5.6	4.8	8.4	7.7	4.8	4.8
25R35	89.5	56.3	93.2	127.3	8.3	8.7	6.0	5.2	7.8	4.2	5.8 8.5	4.5
Locations	85	98	28	28	5	11	12	S	13	3	2	9
Reps.	186	189	09	64	13	25	24	10	26	6	4	12
Prob.	0.392	0.930	0.030	0.000	0.399	9000	0.412	0.294	0.041	0.115	0.000	0.328

XW03U		56.2	91.2	125.2	7.9	7.2	5.6	4.8	8.4	7.7	4.8	4.8
25R47	94.1	54.9	88.4	126.1	8.0	7.6	6.9	5.9	5.8	7.1	8.9	5.7
Locations		68	31	31	5	=	12	'n	13	3	2	9
Reps.		196	99	70	13	25	24	01	26	. 0	1 7	12
Prob.		0.000	0.000	0.000	0.914	0.227	0.008	0.141	0.000	0.130	2.0	0.004
XW03U		56.1	93.2	122.3	7.7	7.2	5.6	4.8	8.4		3.5	8.4
25R78	988.6	57.3	20.7	121.3	7.8	7.3	4.5	4.6	5.1	7.7	5.0	6.5
Locations		9/	24	21	4	6	12	4	13		-	9
Reps.	156	156	47	41	6	20	24	8	26		7	12
Prob.	_	0.000	900.0	0.000	0.783	0.841	0.044	0.761	0.000			0.00

@ Scale of 1-9 where 9 = excellent or resistant, 1 = poor or susceptible.

SSMV = Wheat Spindle Streak Mosaic Virus SBMV = Soil-borne Mosaic Virus

Data in above table collected at locations in Arkansas, Kentucky, Missouri, Illinois, Indiana, Ohio, Michigan, Maryland and Ontario, Canada.

Table 2. Average Soft wheat quality data, 2000-2004.

Variety	Flour Yield	Break Flour Yield	Flour Protein	AWRC	Lactic Acid SRC	Cookie Diameter
25R51	%	%	%	%	%	cm
XW03U-	69.2	38.8	7.6	59.8	98.0	17.9
Years(reps)	2(5)	2(5)	2(5)	1(2)	2(5)	2(2)
25R35	69.1	40.7	8.0	59.6	91.6	18.5
Years(reps)	4(12)	4(12)	4(12)	3(7)	2(8)	3(4)
25R47	72.5	46.0	7.8	54.7	98.0	19.6
Years(reps)	4(16)	4(16)	4(16)	3(11)	2(10)	3(4)
25R78	72.2	43.2	8.3	56.8	92.8	18.3
Years(reps)	4(30)	4(30)	4(30)	3(25)	2(11)	3(10)

AWRC = Alkaline Water Retention Capacity.

Lactic Acid SRC = Lactic Acid Solvent Retention Capacity

Quality data collected at Pioneer in Johnston, IA and the USDA-ARS Soft Wheat Quality Lab in Wooster, OH.

REPRODUCE LOCALLY. Include form number and edition date on all	reproductions.	FORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE  EXHIBIT E  STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to de certificate is to be issued (7 U.S.C. 2 confidential until the certificate is issued.	421). The information is held
NAME OF APPLICANT(S)     Pioneer Hi-Bred International, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER XW03U	3. VARIETY NAME MAG. 25R51 2/28/200.
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)  Crop Genetics Research & Development  Wheat Research  3850 N. 100 E.	5. TELEPHONE (Include area code) (765) 945-7906	6. FAX (Include area code) (765) 945-8313
Windfall, IN 46076-9389	7. PVPO NUMBER	00500152
8. Does the applicant own all rights to the variety? Mark an "X" in the		
9. Is the applicant (individual or company) a U.S. national or a U.S. b	ased company? If no, give name of c	country. X YES NO
10. Is the applicant the original owner?	NO If no, please answer one	of the following:
a. If the original rights to variety were owned by individual(s), is (	are) the original owner(s) a U.S. Nation  NO If no, give name of coun	• •
b. If the original rights to variety were owned by a company(ies),	is (are) the original owner(s) a U.S. ba	· · · · · · · · · · · · · · · · · · ·
11. Additional explanation on ownership (Trace ownership from origin	nal breeder to current owner. Use the i	reverse for extra space if needed):
PLEASE NOTE:		-
Plant variety protection can only be afforded to the owners (not licens	ees) who meet the following criteria:	
If the rights to the variety are owned by the original breeder, that penational of a country which affords similar protection to nationals of	erson must be a U.S. national, national	
<ol><li>If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a c genus and species.</li></ol>	red the original breeder(s), the compan	y must be U.S. based, owned by
3. If the applicant is an owner who is not the original owner, both the o	original owner and the applicant must r	neet one of the above criteria.
The original breeder/owner may be the individual or company who dir Act for definitions.	ected the final breeding. See Section	41(a)(2) of the Plant Variety Protection
According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, control number. The valid OMB control number for this information collection is 0581-0055. including the time for reviewing the instructions, searching existing data sources, gathering as	The time required to complete this information colle	ection is estimated to average 0.1 hour per response,

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